

WHAT IS CLAIMED IS:

1. A hot plugging device for an optical transceiver module, comprising:
a module housing;
5 at least one latching groove extended from prescribed position of a side of the module housing to one end of the module housing;
at least one sliding member extended in the longitudinal direction of the module housing and linearly movably accommodated in the latching groove; and
a rotating member rotatably attached to one end of the module housing for
10 engaging an end of the sliding member with a corresponding end of the latching groove.
2. The device as set forth in claim 1, latching grooves extend from prescribed positions of both sides of the module housing to one end of the module housing and sliding members extended in the longitudinal direction of the module housing and linearly movably accommodate in the latching grooves, respectively.
3. The device as set forth in claim 2, wherein the module housing has a bottom surface and sidewalls upwardly extending from the edges of both sides of the bottom surface, and wherein each of the latching grooves comprises: an engaging groove, of a prescribed length, depressed to a prescribed depth on the sidewalls of the module
15 housing; and an actuating groove extended from the end of the engaging groove to one end of the module housing.

4. The device as set forth in claim 2, wherein each of the sliding members has one end moving close to or away from one end of the module housing, and the other end approaching the end of the corresponding latching groove or engaged in the end of the corresponding latching groove as the sliding members are linearly moved.

5

5. The device as set forth in claim 2, wherein the rotating member comprises:

rotating bodies rotatably attached to both sides of the module housing, respectively, for pushing the sliding members, the rotating bodies being close to the outer ends of the sliding members;

10 linking parts extended from the rotating bodies, respectively, while the linking parts are opposite to each other in one direction; and

a holding part for connecting the ends of the linking parts to each other.

6. The device as set forth in claim 5, wherein each of the rotating bodies has a push arm for pushing one end of each of the sliding members at a prescribed angle so
15 that the other end of each of the sliding members is engaged with the corresponding latching groove.

7. The device as set forth in claim 5, wherein the rotating bodies push the sliding members so that the other end of each of the sliding members is engaged with the corresponding latching groove when the linking parts are placed in parallel with the
20 longitudinal direction of the module housing.

8. The device as set forth in claim 1, wherein the rotating member engages the end of the sliding member with the corresponding end of the latching grooves, respectively, while the rotating member is placed at a prescribed angle to the longitudinal direction of the module housing.

- 5 9. A hot plugging device for an optical transceiver module, comprising:
- a cage mountable on a host board, the cage having latches extended from the inner sides thereof, respectively, and gradually spaced apart from the inner sides thereof in the longitudinal direction of the cage, the latches being elastically deformed;
- a module housing inserted into the cage in the longitudinal direction of the cage
- 10 and having latching grooves formed at the outer sides thereof so that the latches of the cage are engaged in the ends of the latching grooves, respectively;
- sliding members extended in the longitudinal direction of the module housing and linearly movably accommodated in the latching grooves, respectively; and
- a rotating member rotatably attached to one end of the module housing for
- 15 pushing one end of each of the sliding members so that the other end of each of the sliding members is engaged with the end of the corresponding latching groove while the rotating member is placed at a prescribed angle to the module housing, wherein
- the latches are disengaged from the corresponding latching grooves as the other end of each of the sliding members is engaged with the end of the corresponding
- 20 latching groove.

10. The device as set forth in claim 9, wherein the latches are symmetrically formed at the opposite inner sides of the cage.

11. The device as set forth in claim 9, wherein the rotating member comprises:
rotating bodies rotatably attached to both sides of the module housing,
5 respectively, for pushing the sliding members, the rotating bodies being close to the
outer ends of the sliding members;
linking parts extended from the rotating bodies, respectively, while the linking
parts are opposite to each other in one direction; and
a holding part for connecting the ends of the linking parts to each other.

10 12. The device as set forth in claim 11, wherein each of the rotating bodies has a
push arm for pushing one end of each of the sliding members at a prescribed angle so
that the other end of each of the sliding members is engaged with the corresponding
latching groove.

13. The device as set forth in claim 11, wherein the rotating bodies push the
15 sliding members so that the other end of each of the sliding members is engaged with
the corresponding latching groove when the linking parts are placed in parallel with the
longitudinal direction of the module housing.

14. A device for an optical transceiver module, comprising:✓

a module housing having a side that has at least one groove along the side; and

a locking unit coupled to the module housing including at least one sliding member linearly movably accommodated in the latching groove and a rotating member

5 arranged to move the sliding member.

15. The device as set forth in claim 14, wherein the module housing is insertable in a cage and the locking unit locks and releases the module housing in and from the cage.

10

15

20